

# i.n.m. MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**CHEMICAL NAME:** Methacrylate Polymer

**PRODUCT NAME:** N.O.P. Odorless Clear Acrylic Nail Polymer

**TRADE NAME/PRODUCT CODE:** INMNOPCP

**PRODUCT USE:** Organic Process Chemical

**MANUFACTURER:** International Nail Manufacturers (inm)  
Division of Nail Cartel, Inc.

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**MSDS DATE:** 07/16/03

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

### FOR POLYMER:

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Particulates Not Otherwise Classified	NE	60.0-100.0
02	Residual Monomers	NA	0.5-5.0
03	Methacrylate Polymer	9003-42-3	60.0-100.0
04	Organic Peroxide	NE	0.5-1.5
05	Trade Secret	NA	1-5

ITEM	ACGIH		OSHA		Company Recommendation	SKIN
	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING		
01	10 mg/m <sup>3</sup>	NE	15 mg/m <sup>3</sup>	NE	10 mg/m <sup>3</sup>	NE
02	NA	NA	NA	NA	NA	NA
03	10 mg/m <sup>3</sup>	NE	15 mg/m <sup>3</sup>	NE	10 mg/m <sup>3</sup>	NE
04	NE	NE	NE	NE	NE	NE
05	NE	NE	NE	NE	NE	NE

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<b>SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS CONTINUED</b>
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**FOR DECOMPOSITION PRODUCTS:**

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
06	Ethyl Methacrylate Monomer	97-63-2	60.0-100.0

ITEM	ACGIH		OSHA		Company	SKIN
	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING	Recommendation	
06	100 ppm	NE	100 ppm	NE	100 ppm	NE

See Section 16 for Abbreviations.

<b>SECTION 3 - HAZARDS IDENTIFICATION</b>
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**EMERGENCY OVERVIEW:**

<p>WARNING:</p> <p>For Methacrylate Polymer:</p> <p>For Organic Peroxide:</p> <p>For Trade Secret:</p> <p>Conditions Aggravated by Exposure:</p>	<p>For Polymer:</p> <p>Eyes:</p> <p>Skin</p> <p>Respiratory Tract</p> <p>Eyes:</p> <p>Ingestion:</p> <p>Inhalation:</p> <p>Skin:</p> <p>Eyes:</p> <p>Inhalation:</p> <p>Respiratory Tract:</p> <p>Skin:</p>	<p>May irritate eyes, skin and respiratory tract.</p> <p>OSHA classifies this material as Particulates, Not Otherwise Classified.</p> <p>May be irritated by gross overexposure, no matter how generated. Keep dust out of eyes.</p> <p>May be irritated by gross overexposure, no matter how generated. May cause dryness.</p> <p>May be irritated by gross overexposure, no matter how generated.</p> <p>May be severely irritating.</p> <p>No more than slightly toxic, if swallowed.</p> <p>May cause respiratory irritation, practically non-toxic</p> <p>Should be non-irritating, but may cause allergic skin reaction.</p> <p>Possible irritating.</p> <p>No hazard expected in normal use.</p> <p>May cause temporary discomfort due to mechanical irritation when exposures are above the occupational exposure limit.</p> <p>May cause drying.</p> <p>Conjunctivitis of the eye. Dermatitis of the skin. Asthma and Respiratory Diseases.</p>
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<b>SECTION 3 - HAZARDS IDENTIFICATION CONTINUED</b>
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For Decomposition Products:

Ethyl Methacrylate Monomer:

Acute Hazards:	Eyes:	Eye contact may cause irritation with discomfort, tearing, or blurring of vision.
	Respiratory Tract:	Inhalation may cause irritation of the respiratory tract with coughing, of nonspecific discomfort, such as nausea, headache and or weakness.
	Skin:	Effects in humans include skin irritation with discomfort or allergic skin rashes.
	Digestive Tract:	Ingestion may cause anesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness
	Symptoms:	May include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.
Chronic Hazards:	Skin:	May cause allergic skin rashes.
	Animal Studies:	Administered lethal oral doses include weakness, labored and irregular respiration, drop in arterial blood pressure and coma.

**CARCINOGENICITY:**

Benzoyl Peroxide, a component of the Organic Peroxide, is listed by IARC as not classifiable as to carcinogenicity to humans. None of the other components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

**PRIMARY ROUTES OF ENTRY:**

Inhalation, Skin or Eyes.

<b>SECTION 4 - FIRST AID MEASURES</b>
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**EMERGENCY AND FIRST AID PROCEDURES:**

INHALATION:	Remove to fresh air. Get medical help if discomfort persists.
EYES:	Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.
SKIN:	Wash with soap and water. Get medical help if discomfort persists.
INGESTION:	Rinse mouth out with water. Call doctor if amount was large.
CLOTHING:	Wash thoroughly before reuse.
TREATMENT:	Treat symptoms after thorough decontamination.

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### **SECTION 5 - FIRE FIGHTING MEASURES**

<b>FLASH POINT:</b>	304 °C, 580 °F
<b>FLAMMABLE LIMIT, AIR VOL% LOWER:</b>	NA
<b>UPPER:</b>	NA
<b>AUTOIGNITION TEMPERATURE:</b>	NE
<b>EXTINGUISHER METHOD:</b>	Water, carbon dioxide, dry chemical.
<b>FIRE AND EXPLOSION HAZARDS:</b>	Methacrylate Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust into air, producing a fire hazard and possible explosion hazard if exposed to ignition source.
<b>EXPLOSION HAZARD:</b>	Firefighters should wear self-contained breathing apparatus.
<b>SENSITIVE TO MECHANICAL IMPACT:</b>	No.
<b>SENSITIVE TO STATIC DISCHARGE:</b>	No.

### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>ACCIDENTAL RELEASE:</b>	Isolate hazard area and deny entry to unnecessary or unprotected personnel. Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills.
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### **SECTION 7- HANDLING AND STORAGE**

<b>PRECAUTIONS FOR HANDLING:</b>	Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.
<b>PRECAUTIONS FOR STORAGE:</b>	Store in cool dry place away for incompatible materials. Keep container closed to prevent water absorption and contamination.

### **SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

<b>VENTILATION:</b>	Use good, local exhaust at processing equipment, including buffers, sanders, grinders and polishers.
<b>RESPIRATORY PROTECTION:</b>	Use type for Particulates Not Otherwise Classified, if needed.
<b>EYE PROTECTION:</b>	Safety glasses or chemical splash goggles.
<b>PROTECTIVE GLOVES:</b>	Impervious, nitrile, if hot plastic is handled.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	Provide eyewash, safety shower and impervious clothing are recommended. High temperature processing equipment should be well ventilated.
<b>INDUSTRIAL HYGIENE PRACTICES:</b>	Wash face and hands thoroughly with soap and water after use and before eating, drinking, smoking or applying cosmetics.

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### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Fine white powder.
<b>ODOR:</b>	Faint odor in bulk.
<b>pH:</b>	ND
<b>ODOR THRESHOLD:</b>	ND
<b>BOILING POINT:</b>	NA
<b>FREEZING POINT:</b>	ND
<b>VISCOSITY:</b>	NA
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	1.25
<b>VAPOR PRESSURE:</b>	NA
<b>PERCENT VOLATILE W/W%:</b>	NA
<b>VAPOR DENSITY (AIR=1):</b>	NA
<b>EVAPORATION RATE (BuAc =1):</b>	3.0
<b>SOLUBILITY IN WATER:</b>	Insoluble.
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b>	ND

### SECTION 10 - STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Heating above 240 °C, 464 °F.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Methacrylate Monomer and Oxides of Carbon when burned.

**HAZARDOUS POLYMERIZATION:** MAY OCCUR: WILL NOT OCCUR: X

**STABILITY:** UNSTABLE: STABLE: X

### SECTION 11- TOXICOLOGICAL PROPERTIES

**TARGET ORGANS:**

For Methacrylate Polymer;	None Listed.
For Organic Peroxide :	None Listed.
For Organic Peroxide Components:	
Dicalcium Phosphate:	None Listed.
Benzoyl Peroxide:	Skin and eyes.
For Trade Secret:	None Listed.
For Decomposition Products:	
Ethyl Methacrylate:	None Listed.

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### SECTION 11- TOXICOLOGICAL PROPERTIES CONTINUED

#### SENSITIVITY DATA:

For Organic Peroxide:	None Listed.
For Organic Peroxide Components:	
Dicalcium Phosphate:	
Eyes Rabbit:	Slightly irritating/4H.
Skin Rabbit:	Non-irritating.
Benzoyl Peroxide:	
Eyes Rabbit:	Severely irritating.
Skin Rabbit:	Non-irritating/4H.

#### MUTAGENICITY DATA:

For Methacrylate Polymer:	None Listed.	
For Organic Peroxide:	None Listed.	
For Organic Peroxide Components:		
Benzoyl Peroxide:		
Human Cell Types	DNA Damage:	100 µ mol/L.
Mouse Cell Types	DNA Damage:	1 µ mol/L.
Human Cell types	DNA Inhibition:	56 µ mol/L.
Rat Liver	Unscheduled DNA Synthesis:	100 p mol/L.
Human Cell Types	Test Systems Other:	56 µ mol/L.
For Decomposition Products:		
Ethyl Methacrylate Monomer:	None Listed.	

#### REPRODUCTIVE TOXICITY DATA:

For Methacrylate Polymer:	None Listed.	
For Decomposition Products:	None Listed.	
Ethyl Methacrylate Monomer:		
Intraperitoneal Rat	TD <sub>Lo</sub> :	735 mg/kg, 5-15D preg.
Intraperitoneal Rat	TD <sub>Lo</sub> :	366 mg/kg, 5-15D preg.

#### TUMOROGENIC DATA:

For Methacrylate Polymer:	None Listed.	
For Organic Peroxide:	None Listed.	
For Organic Peroxide Components:		
Benzoyl Peroxide:		
Skin Mouse	TD <sub>Lo</sub> :	24 gm/kg/30W.

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### SECTION 11- TOXICOLOGICAL PROPERTIES CONTINUED

#### TOXICITY DATA:

For Methacrylate Polymer:	None Listed.
For Organic Peroxide:	None Listed.
For Organic Peroxide Components:	
Dicalcium Phosphate:	
Ingestion Rat	LD <sub>50</sub> : >4640 mg/kg.
Skin Rabbit	LD <sub>50</sub> : >7940 mg/kg.
Benzoyl Peroxide:	
Inhalation Rat	LC <sub>50</sub> : 24.3 mg/L/4hr.
Intraperitoneal Mouse	LD <sub>Lo</sub> : 250 mg/kg.
Oral Rat	LD <sub>50</sub> : 7710 mg/kg.
Dichlorodimethyl Silane:	
Ingestion Rat	LD <sub>50</sub> : >5000 mg/kg.
For Trade Secret:	
Oral Rat:	LD <sub>50</sub> : >5000 mg/kg.
For Decomposition Products:	
Ethyl Methacrylate Monomer:	
Inhalation Rat	LC <sub>50</sub> : 8300 ppm/4H.
Intraperitoneal Mouse	LD <sub>50</sub> : 1369 mg/kg.
Intraperitoneal Rat	LD <sub>50</sub> : 1223 mg/kg.
Oral Mouse	LD <sub>50</sub> : 7836 mg/kg.
Oral Rat	LD <sub>50</sub> : 14800 mg/kg.
Oral Rabbit	LD <sub>50</sub> : 3630 mg/kg.
Subcutaneous Rat	LD <sub>Lo</sub> : 25 gm/kg.

### SECTION 12 - ECOLOGICAL INFORMATION

#### AQUATIC TOXICITY:

For Methacrylate Polymer:	None Listed.
For Decomposition Products:	
Ethyl Methacrylate Monomer:	None Listed.

#### ECOLOGICAL TOXICITY:

For Methacrylate Polymer:	Not Known.
For Organic Peroxide:	None Listed.
For Organic Peroxide Components:	
Benzoyl Peroxide:	
Guppies	LC <sub>50</sub> : 2.0 mg/L/96H.
Daphnia Magna	EC <sub>50</sub> : 2.9 mg/L/48H.
Algae	EC <sub>50</sub> : 0.83 mg/L/72H.
Activated Sludge	EC <sub>50</sub> : 35 mg/L.

#### ENVIRONMENT FATE:

For Organic Peroxide:	None Listed.
For Organic Peroxide Components:	
Benzoyl Peroxide:	Biodegradation: Almost 60% after 28 days in a closed bottle test.

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### SECTION 13 - DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose in a landfill or incinerate according to Federal, State, and Local regulations.

**DISPOSAL OF EMPTY CONTAINERS:** Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual material, associated with empty containers. It is our policy to discourage the reuse of empty containers and to dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

### SECTION 14 - TRANSPORTATION

**DOT/UN SHIPPING NAME:** SYNTHETIC GUM RESIN GRANULAR, NOIBN  
**DOT/UN CLASS:**  
**NA/UN NUMBER:**  
**PACKING GROUP:**  
**NAERG:**  
**LABEL:**  
**NMFC ITEM #:** 59420  
**SCHEDULE B:** 3906.90.6000  
**IMDG CLASS:**  
**IMDG PG:**  
**CERCLA RQ:** For Decomposition Products:  
Ethyl Methacrylate Monomer: 1000 lb.

### SECTION 15 - REGULATORY INFORMATION

ITEM	TSCA	EINECS	AUSTRALIA	CANADA	JAPAN	KOREA
03	X	X				
04	X					
05	X	X	X	X		X
06	X	X		X		

ITEM	CERCLA	CAA	CWA	RCRA	SARA 313	MAK
04					X	
06	X	X		U 118	X	

ITEM	CA65	FL	MA	MI	MN	NJ	PA	WA
06		X	X			X	X	

**TSCA:** **FOR USE IN FDA REGULATED PRODUCTS ONLY**

**CANADIAN WHMIS:** This product has been classified in accordance with the hazardous criteria of the CPR and the MSDS contains all the information required by the CPR. All of the components of this material are listed on the Canadian DSL.



## i.n.m. N.O.P. Clear Powder

### SECTION 15 - REGULATORY INFORMATION CONTINUED

**RISK STATEMENTS:** R36/37/38 – Irritating to eyes, respiratory system and skin.  
R43 – May cause sensitization by skin contact

**SAFETY STATEMENTS:** S3 – Keep in a cool place.  
S7 – Keep container tightly closed.  
S9 – Keep container in a well ventilated place.  
S16 – Keep away from sources of ignition – No Smoking.  
S20 – When using do not eat or drink.  
S33 – Take precautionary measures against static discharges.  
S37/39 – Wear suitable gloves and eye/face protection.

### SECTION 16 - OTHER INFORMATION

**HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:**

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTIVE EQUIPMENT:	Gloves and Safety Glasses or Chemical Splash Goggles.

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:**

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0

**ABBREVIATIONS:**

NA	Not Applicable	ND	Not Determined
NE	Not Established	CPR	Controlled Products Regulation
ppm	parts per million	G	Gallon
mg	Milligram	L	Liter
gm	Gram	mol	Mole
kg	Kilogram	μ	Micro
mm	Millimeter	p	Pico
Pa	Pascals		
LC	Lethal Concentration	LD	Lethal Dose
TC	Toxic Concentration	TD	Toxic Dose
BOD	Biological Oxygen Demand	COD	Chemical Oxygen Demand
Lo	Lowest	ThOD	Theoretical Oxygen Demand
TLm	Threshold Limit		
H	Hours	M	Months
D	Days	Y	Years
W	Weeks	min	Minutes

## **i.n.m. N.O.P. Clear Powder**

### **SECTION 16 - OTHER INFORMATION CONTINUED**

#### **ABBREVIATIONS CONTINUED:**

OSHA Occupational Safety and Health Administration  
ACGIH American Conference of Governmental Industrial Hygienist  
IARC International Agency for Research for Cancer  
TLV Threshold Limit Value  
PEL Permissible Exposure Limit  
NOEL No Observed Effect Level  
NOAEL No Observed Adverse Effect Level

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.